

In the claims:

Claims 1-65. Cancelled.

66. A data output service method for outputting data content at an output device, comprising

establishing a wireless communication channel between a mobile, wireless information apparatus and a server over a network that includes a wireless communication channel;

providing a composite message from the information apparatus to the server over the wireless communication channel, the composite message including at least one of a job object or a data content object, the job object indicating at least one of authentication and payment information and the data content object including a reference or pointer to data content;

receiving output data at the information apparatus from the server corresponding to the data content; and

delivering the output data from the information apparatus to an output device for outputting the data content.

67. The method of claim 66 in which the network further includes one of an Internet, a local area network, a cellular telephone network and a wide area network.

68. The method of claim 66 in which the output device is an audio output device and the output data includes audio data.

69. The method of claim 66 in which the output device is a display device and the output data includes one or more of image data, audio data, and a video data.

70. The method of claim 66 in which the output device is a printing device and the output data includes printing data.

71. The method of claim 66 further comprising providing from the information apparatus and to the server one or more of an authentication

information, a quality of service information, a priority information and subscription service information.

72. The method of claim 66 in which delivering the output data from the information apparatus to an output device includes a wireless communication channel that is one of a Bluetooth, IRDA, IEEE 802.11, and one that operates in the 2.4 GHz frequency range.

73. The method of claim 66 further comprising the information apparatus discovering the output device prior to delivering the output data.

74. The method of claim 73 in which discovering the output device includes discovering it from among plural available output devices that are available to the information apparatus for outputting the output content.

75. The method of claim 66 in which the output data is delivered from the information apparatus to the output device over a wired connection.

76. The method of claim 66 in which the composite message further includes an indication of at least one of a language, format, or data type corresponding to the data content.

77. The method of claim 66 in which the information apparatus and output device includes a Bluetooth communication unit and the information apparatus communicates with the output device via Bluetooth communication.

78. The method of claim 66 in which the output device further includes an output controller that is externally connected to the output device, and the method further comprising transmitting the output data from the information apparatus to the output controller, and the output controller delivering the output data to the output device.

79. The method of claim 78 in which the output controller is connected to the output device via a wired connection.

80. The method of claim 66 further comprising obtaining at the server data content from a content server employing at least partly the reference or pointer to data content received from the information apparatus.

81. A data output service method, comprising

- establishing a wireless communication channel between a mobile, wireless information apparatus and a server over a wireless communication network;
- providing a composite message from the information apparatus to the server, the composite message including at least a reference or pointer to data content and an indication of at least one of a language, format or data type acceptable for outputting the data content at an output device;
- receiving output data at the information apparatus from the server corresponding to the data content and being in a form that is acceptable for rendering at the output device; and
- delivering the output data from the information apparatus to the output device for outputting the data content.

82. The method of claim 81 in which the output device is an audio output device and the output data includes audio data.

83. The method of claim 81 in which the output device is a display device and the output data includes one or more of image data, audio data, and a video data.

84. The method of claim 81 in which the output data is delivered from the information apparatus to the output device over a data output wireless communication channel.

85. The method of claim 81 further comprising the information apparatus discovering the output device prior to delivering the output data.

86. The method of claim 85 in which discovering the output device includes discovering it from among plural available output devices that are available to the information apparatus for outputting the output content.

87. The method of claim 81 in which the output data is delivered from the information apparatus to the output device over a wired connection.

88. The method of claim 81 further comprising providing from the information apparatus and to the server one or more of an authentication information, an identification information, and a subscription service information.

89. The method of claim 81 further comprising sending payment information from the information apparatus to the server corresponding to payment for the data output service.

90. The method of claim 89 in which the payment information includes data output service subscriber information corresponding to a pre-arranged subscription to the data output service.

91. The method of claim 90 further comprising correlating the data output service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

92. The method of claim 81 further comprising obtaining authentication information from the information apparatus to authenticating permission for the information apparatus to access the data output service.

93. The method of claim 81 in which the output device and the information apparatus includes a Bluetooth communication unit and the information apparatus communicates with the output device via Bluetooth communication.

94. The method of claim 81 further comprising obtaining at the server data content from a content server employing the reference or pointer to data content.

95. The method of claim 94 in which the obtaining of the data content includes obtaining data content related at least in part to the indication included in the composite message.

96. The method of claim 81 further comprising generating at the server output data that is in accordance at least partly to the indication included in the composite message.

97. A data output service method, comprising

establishing a cellular telephone communication channel between a mobile, wireless information apparatus and a server over a cellular telephone communication network;

providing a composite message from the information apparatus to the server, the composite message including at least a reference or pointer to data content and an indication of at least one of a language, format, instruction, or data type acceptable for outputting the data content at an output device;

receiving output data at the information apparatus from the server corresponding to the data content and being in a form that is related at least partly to the indication included in the composite message;; and

delivering the output data from the information apparatus to the output device for outputting the data content.

98. The method of claim 97 in which the output device is an audio output device and the output data includes audio data.

99. The method of claim 97 in which the output device is a display device and the output data includes one or more of image data, audio data, and a video data.

100. The method of claim 97 further comprising providing from the information apparatus and to the server one or more of an authentication information, an identification information, and a subscription service information.

101. The method of claim 97 further comprising sending payment information from the information apparatus to the server corresponding to payment for the data output service.

102. The method of claim 101 in which the payment information includes data output service subscriber information corresponding to a pre-arranged subscription to the data output service.

103. The method of claim 102 further comprising correlating the data output service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

104. The method of claim 97 further comprising obtaining authentication information from the information apparatus to authenticating permission for the information apparatus to access the data output service.

105. The method of claim 97 further comprising obtaining at the server data content from a content server employing at least partly the reference or pointer to data content.

106. A data output service system, comprising
a wireless communication channel on a wireless communication network between a mobile, wireless information apparatus and a server;

means for providing from the information apparatus to the server, at least a reference or pointer to data content and an indication of at least one of a language, format or data type acceptable for outputting the data content at an output device;

means for receiving output data at the information apparatus from the server corresponding to the data content and being in a form that is related at least partly to the indication provided from the information apparatus to the server; and

means for delivering the output data from the information apparatus to the output device for outputting the data content.

107. The method of claim 106 in which the output device is an audio output device and the output data includes audio data.

108. The method of claim 106 in which the output device is a display device and the output data includes one or more of image data, audio data, and a video data.

109. The method of claim 106 in which the output data is delivered from the information apparatus to the output device over a data output wireless communication channel.

110. The method of claim 106 further comprising the information apparatus discovering the output device prior to delivering the output data.

111. The method of claim 106 in which the output data is delivered from the information apparatus to the output device over a wired connection.

112. The method of claim 106 further comprising providing from the information apparatus and to the server one or more of an authentication information, an identification information and subscription service information.

113. The method of claim 106 further comprising sending payment information from the information apparatus to the server corresponding to payment for the data output service.

114. The method of claim 113 in which the payment information includes data output service subscriber information corresponding to a pre-arranged subscription to the data output service.

115. The method of claim 106 further comprising means for generating at the server an output data that compatible to the indication received from the information apparatus.

116. The method of claim 106 in which the output device further includes an output controller that is externally connected to the output device, and the method further comprising delivering the output data from the information apparatus to the output controller for outputting data content at the output device.

117. The method of claim 116 in which the information apparatus is connected to the output controller via a wireless communication.

118. The method of claim 116 in which the information apparatus is connected to the output controller via a wired connection.

119. A data output service method for outputting data content at an output device, comprising

establishing a wireless communication channel between a mobile, wireless information apparatus and a server over a network that includes a wireless communication channel;

providing a composite message from the information apparatus to the server, the composite message including at least one of a job object or a data content object, the job object indicating at least one of authentication and payment information and the data content object including a reference or pointer to a data content that includes audio data;

receiving at least an audio output data at the information apparatus from the server corresponding to the audio data content; and

delivering at least the audio output data from the information apparatus to an output device that includes audio output function for outputting the data content.

120. The method of claim 119 in which the network further includes one of an Internet, a local area network and a wide area network.

121. The method of claim 119 in which the output device is a display device and the output data further includes one or more of image data, audio data, and a video data.

122. The method of claim 119 further comprising providing from the information apparatus and to the server authentication information and subscription service information.

123. The method of claim 119 further includes establishing a wireless communication channel between the information apparatus and the output device.

124. The method of claim 123 in which the output device is a Bluetooth audio output device.

125. The method of claim 123 in which establishing the wireless communication channel includes a security or authentication procedures.

126. The method of claim 119 further comprising the information apparatus discovering the output device prior to delivering the output data.

127. The method of claim 119 in which the output data is delivered from the information apparatus to the output device over a wired connection.

128. The method of claim 119 further comprising obtaining at the server data content from a content server employing at least partly the reference or pointer to the data content.

129. The method of claim 119 in which the output device further includes an output controller that is externally connected to the output device, and the method further comprising delivering the output data from the information apparatus to the output controller for outputting data content at the output device.

130. The method of claim 119 in which the output device is connected to the output controller via a wired connection.